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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,402	10/11/2005	David Paul Humphreys	CELL-0294	8981
23377 7590 10/17/2007 WOODCOCK WASHBURN LLP		EXAMINER		
CIRA CENTR	E, 12TH FLOOR		VOGEL, NANCY S	
2929 ARCH STREET PHILADELPHIA, PA 19104-2891			ART UNIT	PAPER NUMBER
			1636	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

,	Application No.	Applicant(s)	
	10/531,402	HUMPHREYS ET AL.	
Office Action Summary	Examiner	Art Unit	
	Nancy T. Vogel	1636	
The MAILING DATE of this communication app Period for Reply		orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was really reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 2a) ☐ This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.		
Disposition of Claims			
4) Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acceed to a publicant may not request that any objection to the objected to a publication to the objected to a publication of the drawing sheet(s) including the correction of the objected to application of the objected to by the Examine application of the objected to application of the objected to be the correction of the objected to be the correction of the objected to be the Examine application of the objected to be the Examine application of the objected to be the Examine application of the objected to be the correction of the objected to be the Examine application of the objected to be the Examine application of the objected to be the Examine application of the objected to be the correction of the objected to be the Examine application of the objected to be the objected to be the objected to be the Examine application of the objected to be the objected to	vn from consideration. r election requirement. r. epted or b) objected to by the drawing(s) be held in abeyance. Serion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
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Priority under 35 U.S.C. § 119 12) △ Acknowledgment is made of a claim for foreign a) △ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents 2. □ Certified copies of the priority documents 3. △ Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the certified copies of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list of the certified copies of th	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/8/05.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	

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DETAILED ACTION

Claims 1-12 are pending in the case.

Receipt of the Information Disclosure Statement on 12/8/05 is acknowledged.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, and by dependence claims 2-12, are vague and indefinite in the recitation of "an E. coli host cell comprising at least one genetic alteration that results in...that when unmodified, co-purifies with a recombinant antibody expressed by said host cell", since it is unclear from the claim whether it is intended to claim a host cell that expresses a recombinant antibody. From the language used, it could be interpreted that the phrase "co-purifies with a recombinant antibody expressed by the host cell" is intended to refer to a property of the endogenous protein only, and not to the actual host cell claimed. For the purposes of examination only, the latter interpretation has been used.

Claim Rejections - 35 USC § 102

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Shuman et al. (J. Biol. Chem., 257, 10:5455-5461, 1982).

Shuman discloses an E. coli strain comprising a deletion of the gene encoding maltose binding protein, which would affect the isoelectric point (see Table I, strain HS2019, see). It is noted that the claims do not require that a recombinant antibody is expressed in the host cell; rather, the claim recites that the alteration present in the cell results in modification of a physical property of an endogenous protein that, when unmodified, co-purifies with a recombinant antibody expressed by the cell. The phrase "when unmodified, co-purifies with a recombinant antibody expressed by the cell" describes the identity of the protein that is modified.

Claims 1-5, 11, 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Joly et al. (WO 98 18946) (cited by applicants).

Joly et al. disclose E. coli strains comprising at least one genetic alteration that results in modification of at least one physical property of at least one endogenous protein that co-purifies with a recombinant antibody expressed by the cell, which is PtsS (see page 3; see page 5, line 25- page 6, line 10). The reference discloses a method of producing a heterologous protein, which may be an antibody, comprising fermenting said strain.

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Claims 1-5, 11, 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Bass et al. (US Patent 5,304,472)(cited by applicants).

Bass et al. disclose E. coli strains comprising at least one genetic alteration that results in modification of at least one physical property of at least one endogenous protein that co-purifies with a recombinant antibody expressed by the cell which is PtsS (see col. 3 line 45 – col. 4 line 18; see col. 7-8). The reference discloses a method of producing a heterologous protein, which may be an antibody, comprising fermenting said strain.

Claims 1-5, 11, 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Opper et al. (EP 737747) (cited by applicant).

Opper et al. disclose E. coli strains comprising at least one genetic alteration that results in modification of at least one physical property of at least one endogenous protein that co-purifies with a recombinant antibody expressed by the cell which is thioredoxin 1 (see abstract). The reference discloses a method of producing a heterologous protein, which may be an antibody, comprising fermenting said strain (see abstract).

Conclusion

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nancy T. Vogel whose telephone number is (571) 272-0780. The examiner can normally be reached on 7:00 - 3:30, Monday - Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach can be reached on (571) 272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

NV 10/5/07 PRIMARY EXAMINER